### **ENVIRONMENTAL CHEMISTS**

Date of Report: 01/28/99 Date Received: 01/21/99

Project: Metro Self Monitor, PO# M78182

Date Samples Extracted: 01/25/99 Date Extracts Analyzed: 01/27/99

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M78182	0.30	0.34	0.36	0.14
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 01/28/99 Date Received: 01/21/99

Project: Metro Self Monitor, PO# M78182

## QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 901104-01 (Duplicate)

				Relative		
	Reporting	Sample	Duplica	te Percent	Acceptance	
Analyte	Units	Result	Result	Difference	Criteria	
Chromium	mg/L (ppm)	0.30	0.30	0	0-20	
Copper	mg/L (ppm)	0.34	0.34	0	0-20	
Nickel	mg/L (ppm)	0.36	0.38	5	0-20	
Zinc	mg/L (ppm)	0.14	0.14	0	0-20	

Laboratory Code: 901104-01 (Matrix Spike)

		Reporting	Spike	Sample	% Recov	ery %	Recov	ery	Acceptance	,	
	Analyte	 Units	Level	Result	MS	100	MSD		Criteria	RPD	
į	Chromium	mg/L (ppm)	5	0.30	96		96	11/11/	80-120	0	7
	Copper	mg/L (ppm)	5	0.34	88		93		80-120	6	
	Nickel	mg/L (ppm)	10	0.36	98		91		80-120	7	
	Zinc	mg/L (ppm)	5	0.14	98		93		80-120	5	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recover	ry % Recove	ry Acceptance	e	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	105	106	80-120	1	
Copper	mg/L (ppm)	5	105	106	80-120	1	
Nickel	mg/L (ppm)	10	110	113	80-120	3	
Zinc	mg/L (ppm)	5	108	110	80-120	2	

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

901104

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# SAMPLE CHAIN OF CUSTODY

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06/09/97

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 28, 1999

## **DUPLICATE COPY**

## **INVOICE #99ACU0128-1**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M78182: Results of testing requested by Gerry Thompson for material submitted on January 21, 1999.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$80 per sample \$80.00

Amount Due \$80.00

FEDERAL TAX ID (b) (6)

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

January 28, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 21, 1999 from your Metro Self Monitor, PO# M78182 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0128R.DOC